Application No.: 09/965610 Case No.: 56032US022

## B. Amendments to the Claims:

The following Listing of Claims will replace all prior versions, and listings, of claims in the application:

## Listing of Claims

A listing of the claims is set forth below and is intended to replace all prior claims submitted in this application. In the claims presented herein, claim 1 is amended.

The above amendment is believed to obviate all rejections in the above-mentioned Office Action.

- 1. (Currently amended) A transdermal drug delivery composition emprising consisting essentially of
  - (a) a copolymer comprising
    - (i) one or more A monomers selected from the group consisting of alkyl acrylates containing 4 to 12 carbon atoms in the alkyl group and alkyl methacrylates containing 4 to 12 carbon atoms in the alkyl group; and
    - (ii) one or more ethylenically unsaturated B monomers copolymerizable with the A monomer; and
  - (b) about 8% to about 30% by weight fentanyl based on the total weight of the composition;

wherein the composition is substantially free of undissolved fetanyl.

- 2. (Original) The composition of claim 1 wherein the A monomer is selected from the group consisting of isooctyl acrylate, 2-ethylhexyl acrylate, butyl acrylate, and cyclohexyl acrylate.
- 3. (Original) The composition of claim 1 wherein the A monomer is isooctyl acrylate.
- 4. (Original) The composition of claim 1 wherein the B monomer is selected from the group consisting of 2-hydroxyethyl acrylate, 2-hydroxyethyl methacrylate, glyceryl acrylate, N, N-diethylacrylamide, 2-ethoxyethoxyethyl acrylate, 2-ethoxyethyl acrylate,

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tetrahydrofurfuryl acrylate, acrylic acid, acrylamide, vinyl acetate, N-vinyl pyrrolidone and mixtures thereof.

- 5. (Original) The composition of claim 1 wherein the B monomer is 2-hydroxyethyl acrylate.
- 6. (Original) The composition of claim 5 wherein the copolymer comprises from about 5% to about 45% of 2-hydroxyethyl acrylate by weight based on the total weight of all monomers in the copolymer.
- 7. (Original) The composition of claim 1 wherein the copolymer further comprises a macromonomer.
- 8. (Original) The composition of claim 7 wherein the macromonomer is a functionally terminated polymethylmethacrylate.
- 9. (Original) The composition of claim 7 wherein the copolymer contains from about 1% to about 6% of macromonomer by weight based on the total weight of all monomers in the copolymer.
- 10. (Original) The composition of claim 1 wherein the composition further comprises a delivery enhancing adjuvant.
- 11. (Original) The composition of claim 10 wherein the delivery enhancing adjuvant is selected from the group consisting of alkane polyols, fatty acids, fatty acid esters, fatty alcohols, terpenes, C<sub>5</sub>-C<sub>18</sub> alkyl esters of a carboxylic acid, and mixtures thereof.
- 12. (Original) The composition of claim 10 wherein the delivery enhancing adjuvant is selected from the group consisting of ethyl oleate, isopropyl myristate, glycerol,

tetraglycol, methyl laurate, N,N-dimethyldodecylamine N-oxide, limonene, terpineol, tetraethylene glycol, menthol, and mixtures thereof.

- 13. (Previously presented) The composition of claim 10 wherein the concentration of the delivery enhancing adjuvant is from about 5% to about 40% by weight based on the total weight of the composition.
- 14. (Previously presented) The composition of claim 34 wherein the skin permeation enhancer is tetraglycol.
- 15. (Previously presented) The composition of claim 34 wherein the skin permeation enhancer is methyl laurate.
- 16. (Original) The composition of claim 1 wherein the concentration of fentanyl in said transdermal drug delivery composition is from about 12% to about 24% by weight.
- 17. (Original) The composition of claim 7 wherein the copolymer comprises from about 50 to about 94% isooctyl acrylate, about 5% to about 40% 2-hydroxyethyl acrylate, about 1% to about 6% macromonomer, and 0% to about 20% vinyl acetate by weight.
- 18. (Original) The composition of claim 7 wherein the copolymer comprises from about 52% to about 60% isooctyl acrylate, about 35% to about 40% 2-hydroxyethyl acrylate, about 1% to about 4% macromonomer, and 0% to about 10% vinyl acetate by weight.
- 19. (Original) The composition of claim 17 wherein the concentration of fentanyl is from about 12% to about 22% by weight, wherein the composition further comprises about 15% to about 35% by weight of a permeation enhancer selected from the group consisting of methyl laurate, tetraglycol, and mixtures thereof.

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20. (Original) The composition of claim 19 wherein the concentration of fentanyl is from about 12% to about 17% by weight and the concentration of methyl laurate is from about 20% to about 35% by weight.

21. (Original) The composition of claim 19 wherein the concentration of fentanyl is from about 15% to about 22% by weight and the concentration of tetraglycol is from about 15% to about 25% by weight.

## 22. CANCELLED

- 23. (Previously presented) A pressure sensitive adhesive composition for the transdermal delivery of fentanyl comprising
  - (a) an acrylate polymer;
  - (b) about 8% to about 30% by weight fentanyl based on the total weight of the composition; and
  - (c) a delivery enhancing adjuvant selected from the group consisting of methyl laurate, tetraglycol, and mixtures thereof;

wherein the composition is substantially free of undissolved fentanyl.

- 24. (Original) The composition of claim 23 wherein the concentration of delivery enhancing adjuvant is from about 5% to about 40% by weight based on the total weight of the composition.
- 25. (Previously presented) The composition of claim 23 wherein the acrylate polymer comprises:
  - (a) one or more A monomers selected from the group consisting of alkyl acrylates containing 4 to 12 carbon atoms in the alkyl group and alkyl methacrylates containing 4 to 12 carbon atoms in the alkyl group; and
  - (b) one or more ethylenically unsaturated B monomers copolymerizable with the A monomer.

- 26. (Original) The composition of claim 25 wherein the B monomer is selected from the group consisting of 2-hydroxyethyl acrylate, 2-hydroxyethyl methacrylate, glyceryl acrylate, N,N-diethylacrylamide, 2-ethoxyethoxyethyl acrylate, 2-ethoxyethyl acrylate, tetrahydrofurfuryl acrylate, N-vinyl pyrrolidone and mixtures thereof.
- 27. (Original) A device for the transdermal delivery of fentanyl comprising a backing and a composition according to claim 1, said composition being adhered to one surface of the backing.
- 28. (Original) A method of treating in a mammal a condition capable of treatment by fentanyl comprising the steps of:
  - (a) providing a composition according to claim 1;
  - (b) placing the composition on the skin of a mammal; and
  - (c) allowing the composition to remain on the skin for a time sufficient to establish or maintain a therapeutically effective blood level of fentanyl in the mammal.
- 29. (Original) A method of providing analgesia to a mammal comprising the steps of:
  - (a) providing a composition according to claim 1;
  - (b) placing the composition on the skin of a mammal; and
  - (c) allowing the composition to remain on the skin for a time sufficient to establish or maintain an analgesically effective blood level of fentanyl in the mammal.
- 30. (Previously presented) A method of providing sustained analgesia to a mammal comprising delivering fentanyl to a mammal via a transdermal drug delivery device in an amount of about 0.5 to about 5.0 mg/day thereby causing the serum concentration of fentanyl in the mammal to be about 0.2 to about 10 ng/mL for a period of time from about 4 to about 14 days, wherein the device includes a composition comprising an acrylate polymer and about 8% to about 30% by weight fentanyl based on the total weight of the composition, wherein the composition is substantially free of undissolved fentanyl.

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31. (Original) The method of claim 30 wherein the fentanyl is delivered in an amount of 0.5 to 2.5 mg/day, the serum concentration of fentanyl in the mammal is about 0.3 to about 4 ng/mL, and the period of time is from about 6 to about 8 days.

- 32. (Original) A device for the transdermal delivery of fentanyl comprising:
  - (a) a drug reservoir layer comprising the composition of claim 1;
  - (b) a rate controlling membrane adhered to one surface of the drug reservoir layer; and
  - (c) a skin contacting pressure sensitive adhesive layer adhered to the surface of the membrane that is opposed to the surface of the membrane in contact with the reservoir layer.
- 33. (Original) A device for the transdermal delivery of fentanyl comprising:
  - (a) a drug reservoir layer comprising the composition of claim 17;
  - (b) a rate controlling membrane adhered to one surface of the drug reservoir layer; and
  - (c) a skin contacting pressure sensitive adhesive layer adhered to the surface of the membrane that is opposed to the surface of the membrane in contact with the reservoir layer.
- 34. (Previously presented) The composition of claim 10 wherein the delivery enhancing adjuvant is a skin permeation enhancer.
- 35. (Previously presented) A transermal drug delivery composition comprising:
  - (a) a copolymer comprising:
    - (i) one or more A monomers from the group consisting of isooctyl acrylate, 2-ethylhexyl acrylate, butyl acrylate, and cyclohexyl acrylate; and (ii) one or more ethylenically unsaturated B monomers copolymerizable with the acrylate, 2-hydroxyethyl methacrylate, glyceryl acrylate, N, N-

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diethylacrylamide, 2-ethoxyethoxyethyl acrylate, 2-ethoxythyl acrylate, tetrahydrofurfuryl acrylate, acrylic acid, acrylamide, vinyl acetate, N-vinyl pyrrolidone and mixtures thereof; and

(b) about 8% to about 30% by weight fentanyl based on the total weight of the composition;

wherein the composition is substantially free of undissolved fentanyl.

- 36. (Previously presented) A transdermal drug delivery composition comprising:
  - (a) a copolymer comprising:
    - (i) one or more A monomers selected from the group consisting of isooctyl acrylate, 2-ethylhexyl acrylate, butyl acrylate, and cyclohexyl acrylate; and (ii) about 5% to about 45% of one or more ethylenically unsaturated B monomers copolymerizable with the A monomer; wherein the B monomers are selected from the group consisting of 2-hydroxyethyl acrylate, 2-hydroxyethyl methacrylate, glyceryl acrylate, N, N-diethylacrylamide, 2-ethoxyethoxyethyl acrylate, tetrahydrofurfuryl acrylate, acrylic acid, acrylamide, vinyl acetate, N-vinyl pyrrolidone and mixtures thereof; and
  - (b) about 8% to about 30% by weight fentanyl based on the total weight of the composition;

wherein the composition is substantially free of undissolved fentanyl.

- 37. (Previously presented) A transdermal drug delivery composition comprising
  - (a) a copolymer comprising
    - (i) one or more A monomers selected from the group consisting of isooctyl acrylate, 2-ethylhexyl acrylate, butyl acrylate, and cyclohexyl acrylate; and (ii) about 5% to about 45% of one or more ethylenically unsaturated B monomers copolymerizable with the A monomer, wherein at least one B monomer is 2-hydroxyethyl acrylate; and

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(b) about 8% to about 30% by weight fentanyl based on the total weight of the composition;

wherein the composition is substantially free of undissolved fentanyl; and wherein the drug delivery device delivers fentanyl to a mammal via a transdermal drug delivery device in an amount of about 0.5 to about 5.0 mg/day thereby causing the serum concentration of fentanyl in the mammal to be about 0.2 to about 10 ng/mL for a period of time from about 4 to about 14 days.

- 38. (Previously presented) A transdermal drug delivery composition comprising
  - (a) a copolymer comprising
    - (i) one or more A monomers selected from the group consisting of isooctyl acrylate, 2-ethylhexyl acrylate, butyl acrylate, and cyclohexyl acrylate; and
    - (ii) about 5% to about 45% of one or more ethylenically unsaturated B monomers copolymerizable with the A monomer; wherein at least one B monomer 2-hydroxyethyl acrylate,; and
  - (b) about 8% to about 30% by weight fentanyl based on the total weight of the composition; and
  - (c) a delivery enhancing adjuvant selected from the group consisting of methyl laurate, tetraglycol, and mixtures thereof; wherein the composition is substantially free of undissolved fentanyl.